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Your Name Ryan Yang

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AU 2628 Examiner # 76963

Where have you searched?

Room # KVX10A19 Phone 2-7666

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NPL _____ where - IEEE, ACM, internet, other

Serial # 10/815,195

Priority Date 5/29/2000

DESCRIBE the scope of your request, such as the area of art, novelty, process or method if applicable. Specify the concepts, synonyms, keywords, acronyms, or definitions and the relationship of the concepts to each other. Please attach a copy of the background, abstract, and pertinent claims of the application. **ONLY specifying CLAIM 1 is not enough.**

litigation search

original patent # 6,650,318 11/18/2003


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Date picked up _____ Date completed _____
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OTHER _____



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1 / 1 FAMPAT - ©QUESTEL-ORBIT - image

FAN - 20042800761291

PN -  US6650318 B1 20031118 [US6650318]

TI - Data input device

PA - VKB INC

PA0 - VKB Inc., Wilmington DE [US]

IN - ARNON BOAZ

AP - 2000US-0687141 20001013

PR - 2000US-0687141 20001013

IC - G03H-001/00
G03H-001/22
G06F-003/033
G09B-021/00
G09G-005/00

ICAA - G03H-001/00 [2006-01 A - I R M EP]; G03H-001/22 [2006-01 A - I R M EP];
G06F-003/033 [2006-01 A - I R M EP]; G09B-021/00 [2006-01 A - I R M EP]

ICCA - G03H-001/00 [2006 C - I R M EP]; G06F-003/033 [2006 C - I R M EP]; G09B-
021/00 [2006 C - I R M EP]

EC - G03H-001/00
G03H-001/22
G06F-003/042B4
G09B-021/00B2

PCL - ORIGINAL (O) : 345168000; CROSS-REFERENCE (X) : 345156000
345157000 345158000 345169000 345173000

CT - (US6650318)
Cited; US5457550; US5767842; US6377238; EP0982676; Cited; US4843568;
US5181181; US6281878; DE29802435; DE29802435; EP0982676; EP0982676;
WO0021024

AB - (US6650318)
A data input device including an optically generated image of a data input
device, the image including at least one input zone actuatable by an action
performed thereon by a user, a sensor operative to sense the action performed on
the at least one input zone, and to generate signals in response to the action, and
a processor in communication with the sensor operative to process the signals for
performing an operation associated with the at least one input zone.

OBJ - (US6650318)
The present invention relates generally to data input devices, such as keyboards,
and particularly to optically generated images of data input devices.
The present invention seeks to provide a novel and improved data input device.
The present invention also provides a multilingual keyboard heretofore
impossible to achieve in the prior art.

ADB - (US6650318)
The present invention thus enables user-friendly use of cell phones for
communication on the Internet.

In the present invention, since the keys are "virtual", any language can be optically formed on the keys of the keyboard, and a suitable linguistic processor can interpret between the keyed-in language and any other language in which it is desired to transmit a message.

ICLM -

(US6650318)

1. A data input device comprising:

an optically generated image of a data input device, said image comprising at least one input zone actuable by an action performed thereon by a user;
a sensor operative to sense the action performed on said at least one input zone, and to generate signals in response to said action, said sensor being an optical position sensing device (PSD); and
a processor in communication with said sensor operative to process said signals for performing an operation associated with said at least one input zone.

10. A data input device comprising:

an optically generated image of a data input device, said image comprising at least one input zone actuable by an action performed thereon by a user;
a sensor operative to sense the action performed on said at least one input zone, and to generate signals in response to said action, said sensor being an acoustic sensor; and
a processor in communication with said sensor operative to process said signals for performing an operation associated with said at least one input zone.

13. A method for data input comprising:

generating an optical image of a data input device, said image comprising at least one input zone actuable by an action performed thereon by a user;
performing an action on said at least one input zone;
sensing the action performed on said at least one input zone, said sensing comprising:
detecting light reflected from an object within a silhouette of said image; and
analyzing a reflection of said light to determine a spatial position of the object;
generating signals in response to said action; and
processing said signals for performing an operation associated with said at least one input zone.

33. A method for data input comprising:

generating an optical image of a data input device, said image comprising at least one input zone actuable by an action performed thereon by a user;
performing an action on said at least one input zone;
sensing the action performed on said at least one input zone, said sensing comprising:
providing a non-visible light beam emanating from a non-visible-light source;
detecting an image of said non-visible light impinging upon an object; and
analyzing said image of said non-visible light to determine a spatial position of the object;
generating signals in response to said action; and
processing said signals for performing an operation associated with said at least one input zone.


36. A data input device comprising:

an optically generated image of a data input device, said image comprising at least one input zone actuable by an action performed thereon by a user;
a sensor operative to sense the action performed on said at least one input zone, and to generate signals in response to said action, said sensor being operative to:

detect light reflected from an object within a silhouette of said image; and
analyze a reflection of said light to determine a spatial position of the object; and
a processor in communication with said sensor operative to process said signals
for performing an operation associated with said at least one input zone.

UP - 2003-48

1/1 LGST - ©EPO

PN -  US6650318 B1 20031118 [US6650318]

AP - US68714100 20001013 [2000US-0687141]

ACT - 20001013 US/AS-A

ASSIGNMENT

OWNER: VKB INC. 1013 CENTER ROAD WILMINGTON, DELAWARE, /A;

EFFECTIVE DATE: 20001004

ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: ARNON,

BOAZ /AR; REEL/FRAME: 011216/0104


20040727 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040401

UP - 2006-13

1/1 CRXX - ©CLAIMS/RRX

PN -  6,650,318 A 20031118 [US6650318]

PA - VKB Inc

ACT - 20040401 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040727

REISSUE REQUEST NUMBER: 10/815195

EXAMINATION GROUP RESPONSIBLE FOR REISSUE PROCESS: 2673

Reissue Patent Number:

Search statement 3

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6650318

November 18, 2003

Data input device

REISSUE: April 1, 2004 - Reissue Application filed Ex. Gp.: 2673; Re. S.N.
10/815,195 (O.G. July 27, 2004)

APPL-NO: 687141 (09)

FILED-DATE: October 13, 2000

GRANTED-DATE: November 18, 2003

CORE TERMS: input, beam, keyboard, optical, sensor, laser, sensing, user,
optically, finger ...

LEXIS-NEXIS

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File: ALL

6,650,318 OR 6650318

LEXIS-NEXIS
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Patent Search 6650318 7/31/2007

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